Battle Force Capabilities / Mission Capabilities Packages

For the Interoperability Workshop



N70
Warfare
Integration
& Assessment

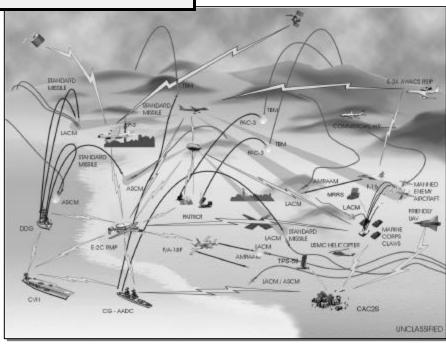
29 May 2001

CAPT John Yurchak

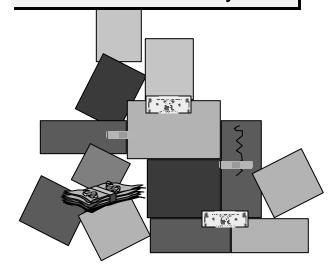
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Context: The Dilemma

What We Want ...



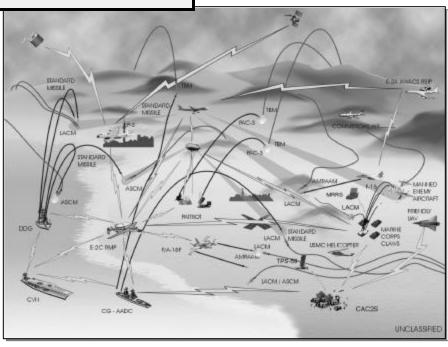
... And How We're Trying To Get There Today



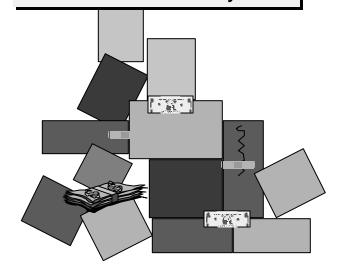
- We're trying to build complex, highly networked, integrated, joint multi-platform, multi-system capabilities ...
 - Without a top-level design
 - Within a patchwork of stove-piped non-integrated processes

What's Wrong

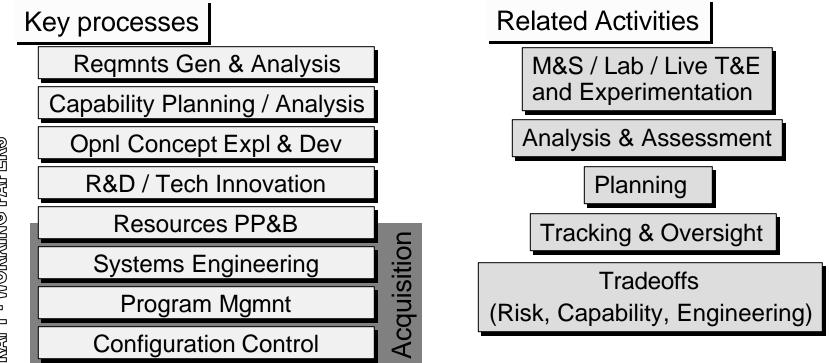
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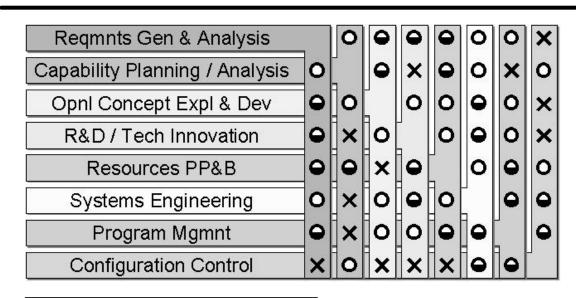
- Fundamental, systemic interoperability problems persist in POR systems
- Focus is still on systems and platforms vice capabilities
- Uncoordinated, non-synchronized decision processes
- Inconsistent information sources and decision products
- Many authorities / stakeholders not linked to key processes / decisions
- Confusion over "Who's in charge" a recurring theme throughout
- Need for architectures repeatedly asserted



DoD, Navy/Joint/Allied Customers & Users, OPNAV, SYSCOMs, PEOs, PMs

- Multiple Stakeholders, Process Owners, Decision Authorities
- Different domains, agendas, objectives, incentives, metrics, frameworks

Summary Process Assessment



Many processes / links "broken" or ineffective

But ...

Lots of good work converging on some dominant issues

Dominant Process Issues

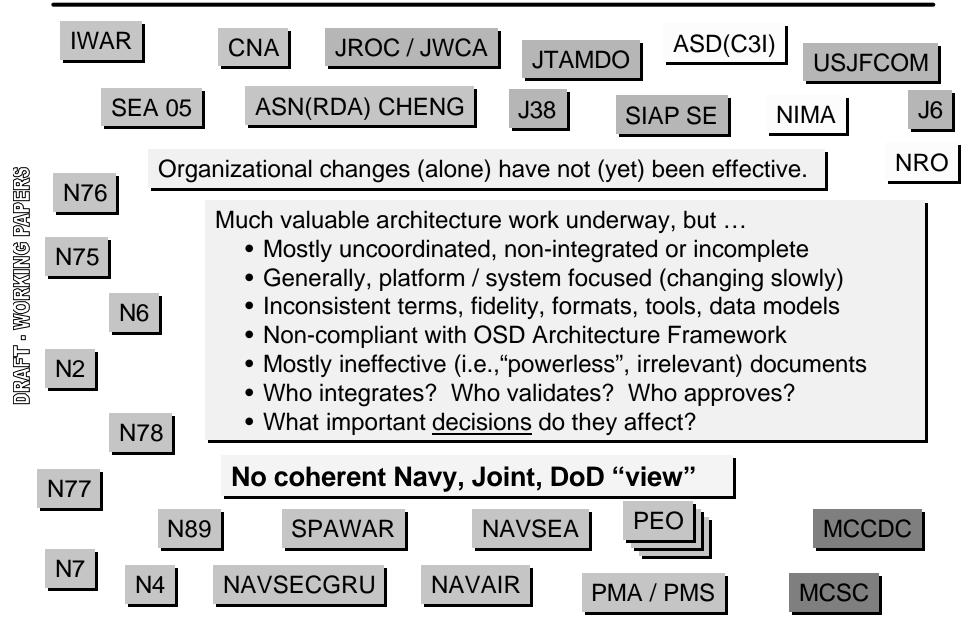
- Inconsistent analytic frameworks and metrics
- Non-integrated requirements (platform vs battle force / FOS focus)
- Inconsistent, nonintegrated tradeoff processes and objectives (Risk, fiscal, capability, engineering, etc.) and feedback
- No unifying context

The status quo won't get us there

Just How "Bad" Is It?

- Not a "war-losing" condition, but ...
 - Operational confusion, delayed or errant decisions ... when we need clarity and precision
 - Longer operational planning & execution timelines ... when we need to shorten them
 - Smaller engagement envelopes
 - ... when we expected (paid for) much more
 - Increased cost-of-ownership and time-to-market
 - ... when we're trying to be more nimble and efficient
- It's taken a long time for us to get into the state we're in today and it will take some time just to see improvement
- No one organization owns the key to a solution
- No single action or decision, from anyone, will get us out of this

Who's "Doing" Architecture-Related Work Today?



If We're Going to Effect Process Changes ...

We must answer the following questions

- What are the relevant domains / processes?
- Who are (should be) ...
 - Stakeholders?
 - Process owners?
 - Decision makers?
- What relevant decisions to affect / effect, and when?
- How to support decisions?
 - What data, frameworks, methods, processes, tools, products?
- How to influence decisions?
 - Acquire decision authority?
 - Advise decision makers?

What We're Proposing

How to Bring Together the key DoD Decision Support Systems ... Requirements and Capabilities Generation & Analysis Resource **Planning** Acquisition ... Within An Integrated (PPBS) Management Architecture Framework Note: This is not just C4ISR

Objective: Make milestones and other important program planning decisions depend on compliance with validated and approved integrated architectures

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How To Achieve What We Want

The Mission Capability Package (aka Portfolio)

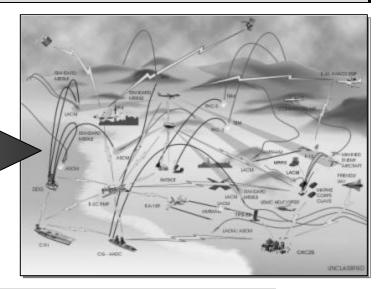
Use Mission Capability Packages (MCPs) as the focus of integration

What's a MCP?

- Introduced by the concept of Network Centric Warfare / Operations
- A Task-Organized Bundle of ...
 - CONOPS, processes and organizational structures
 - Networks, sensors, weapons and systems
 - The people, training and support services to sustain it

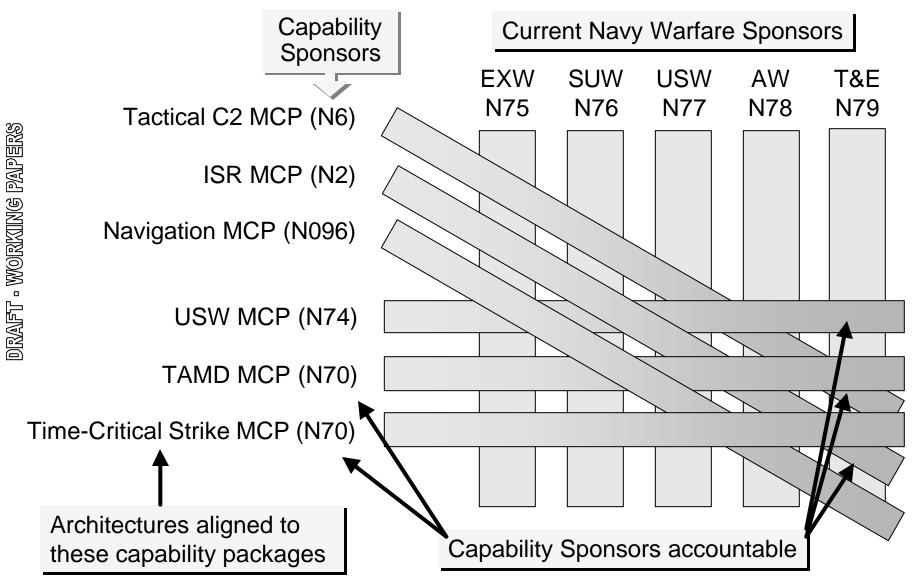
A MCP treats all of the above not as a collection of things and processes -- but as an integrated system

Architectures should be based on (describe) MCPs



MCP ~= Joint Staff Joint Mission Area (JMA), DoD Portfolio

Example Mission Capability Packages (MCPs) as "Slices" Through the Platform/System Domain



The Mechanisms For Change

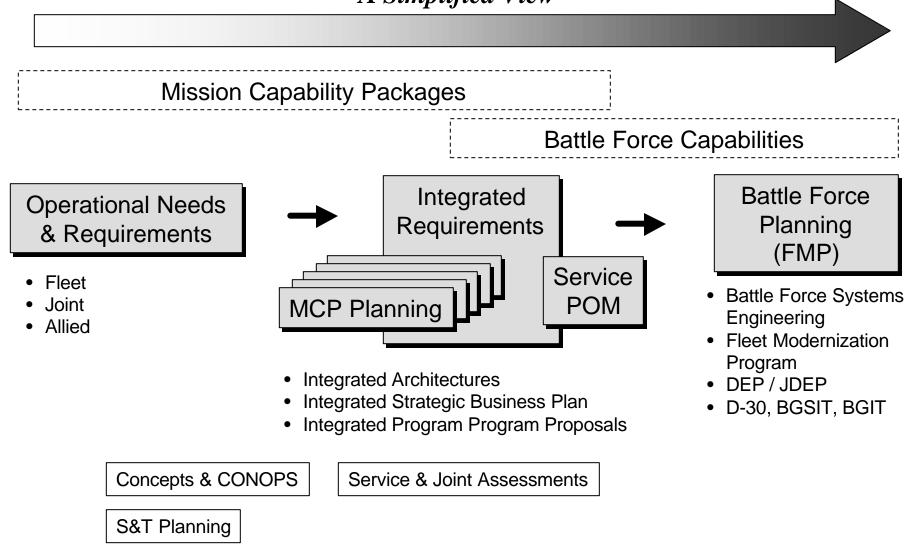
- The Principal Output =
 Battle Force Capabilities
- The Principal Mechanisms for Integration = Integrated Architectures
- The Principal Mechanisms for Achieving Alignment = Mission Capability Packages

The Principal Navy Stakeholders

- OPNAV (CNO, N8, N7, sponsors)
- Fleet
- ASN(RDA) Chief Engineer
- NWDC
- ONR
- PEOs and SYSCOMs

Changes To The Status Quo

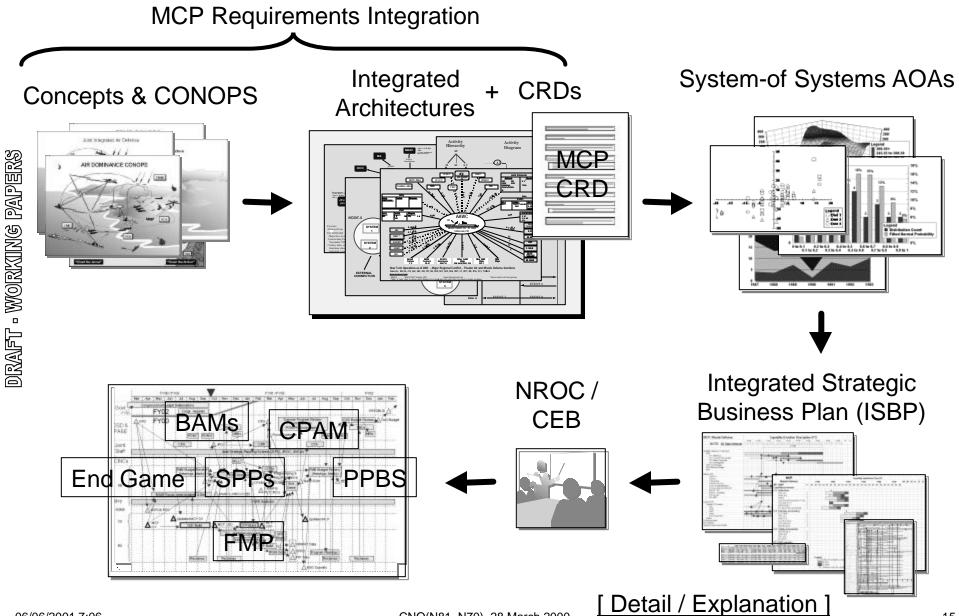
A Simplified View

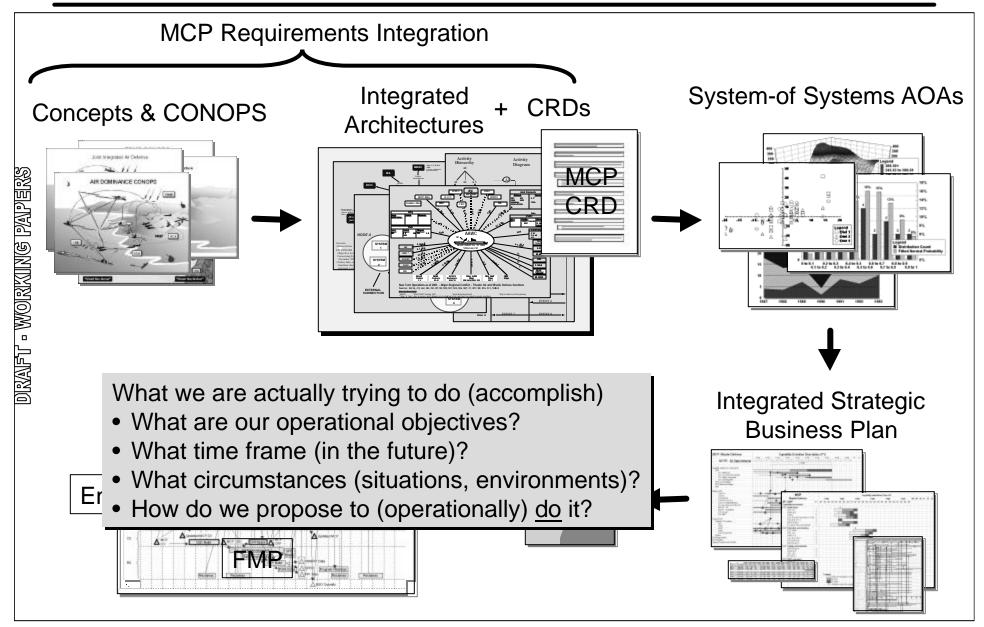


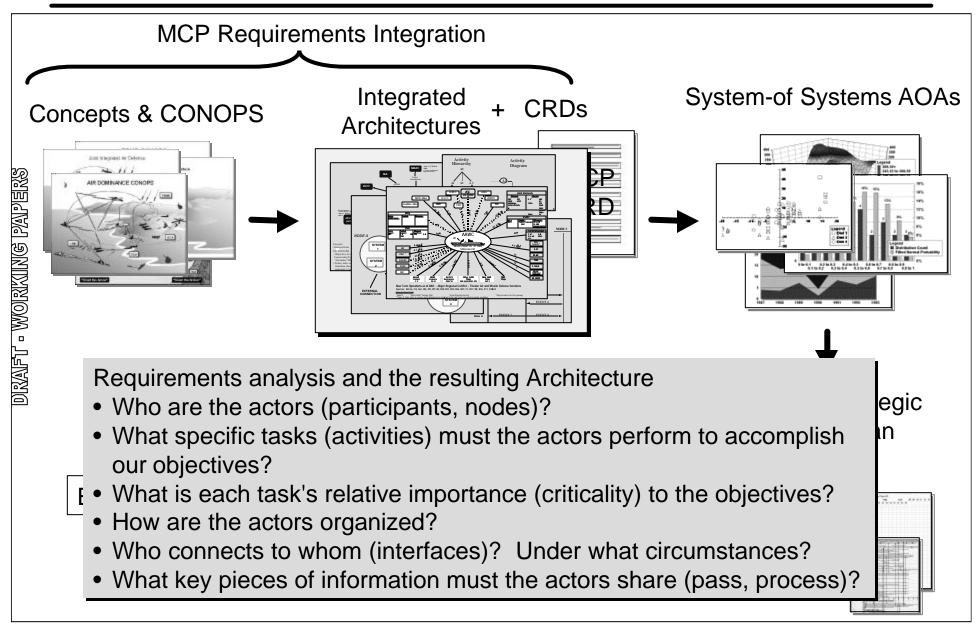
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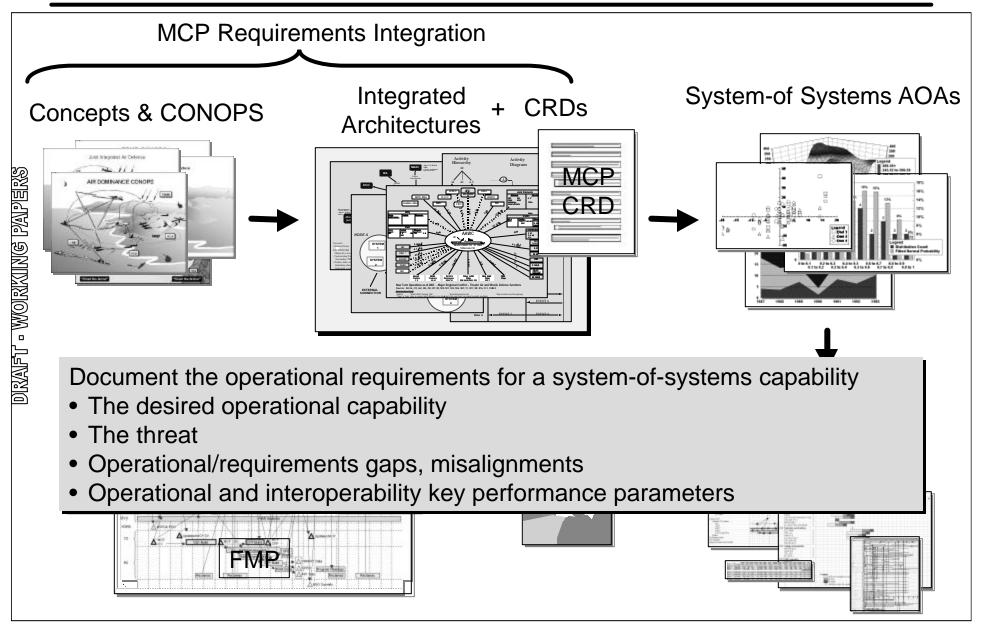
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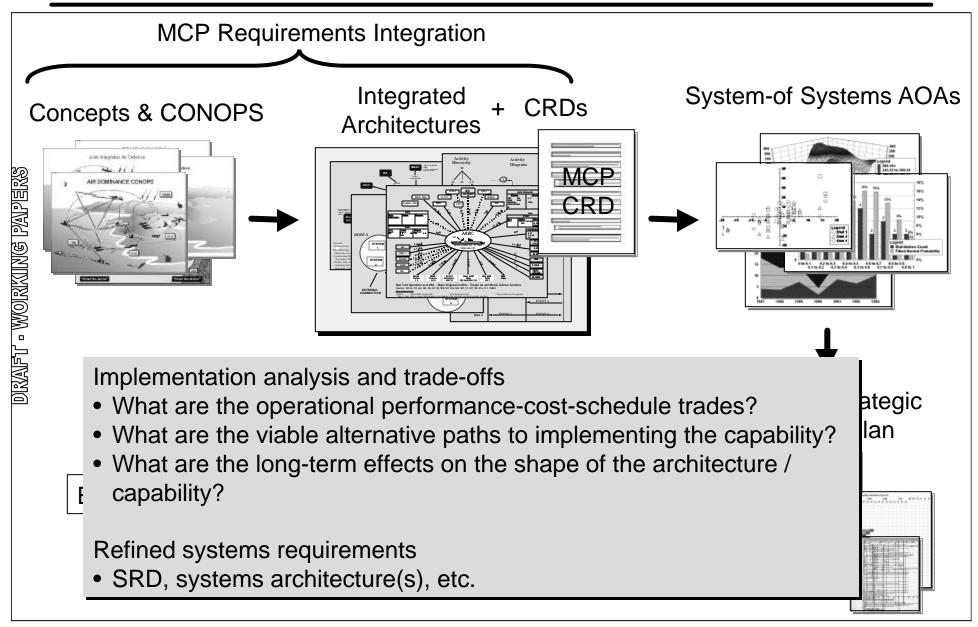
Service & Joint Experimentation



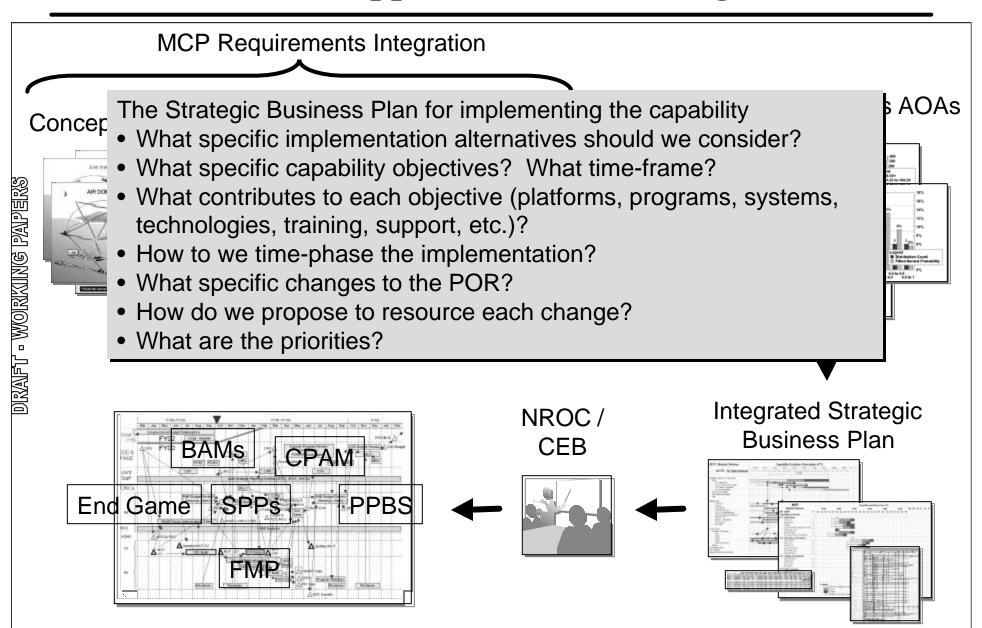




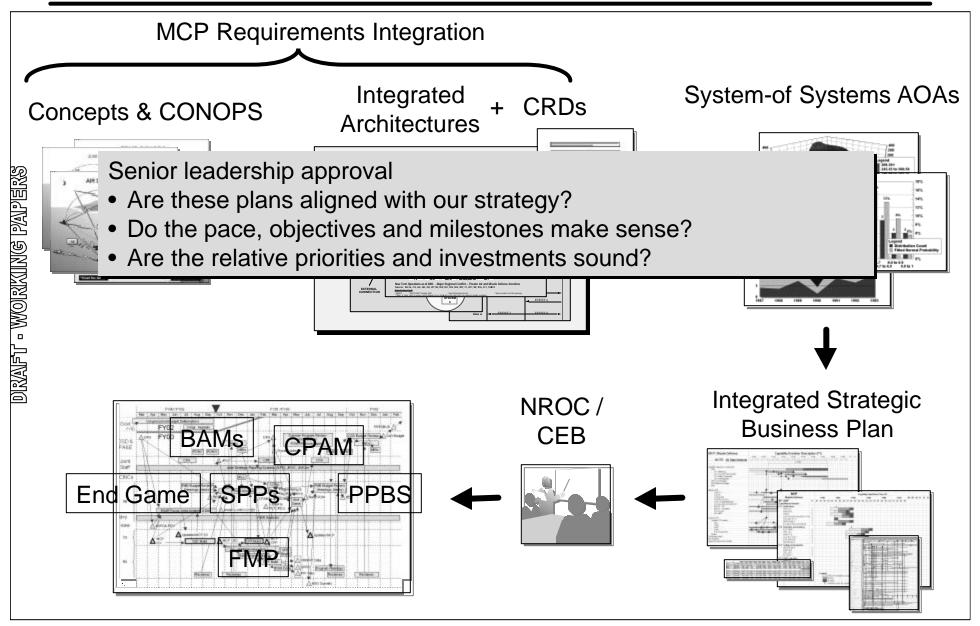




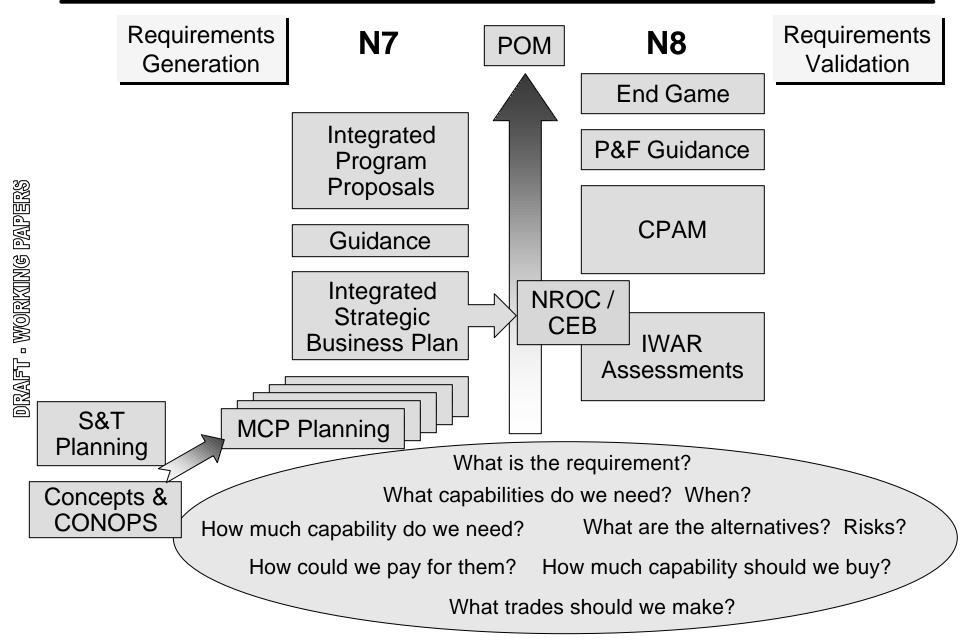
Basic Approach We're Taking



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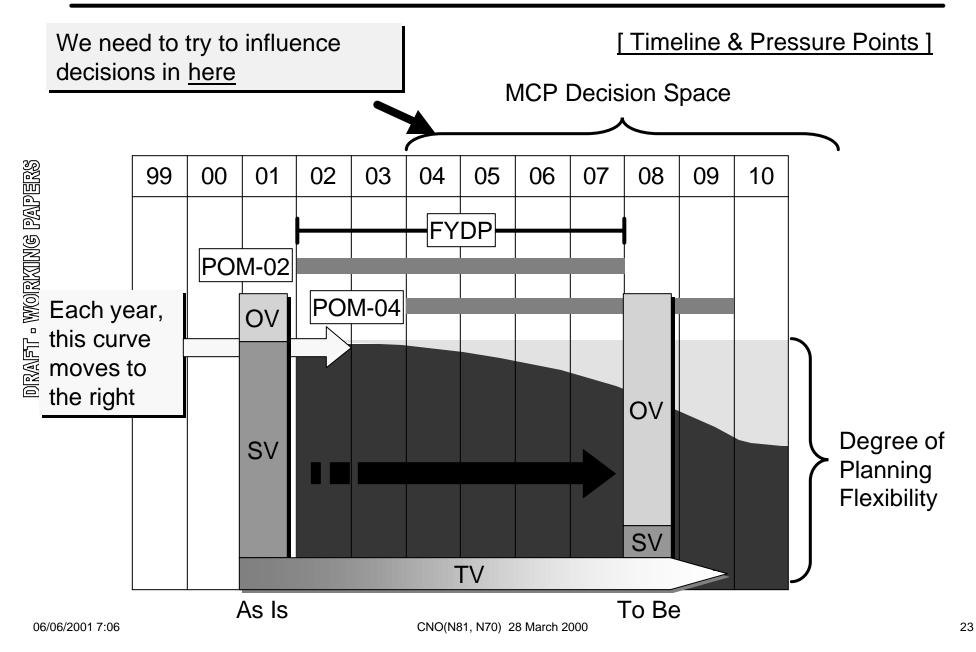


Changes to The Status Quo (OPNAV)



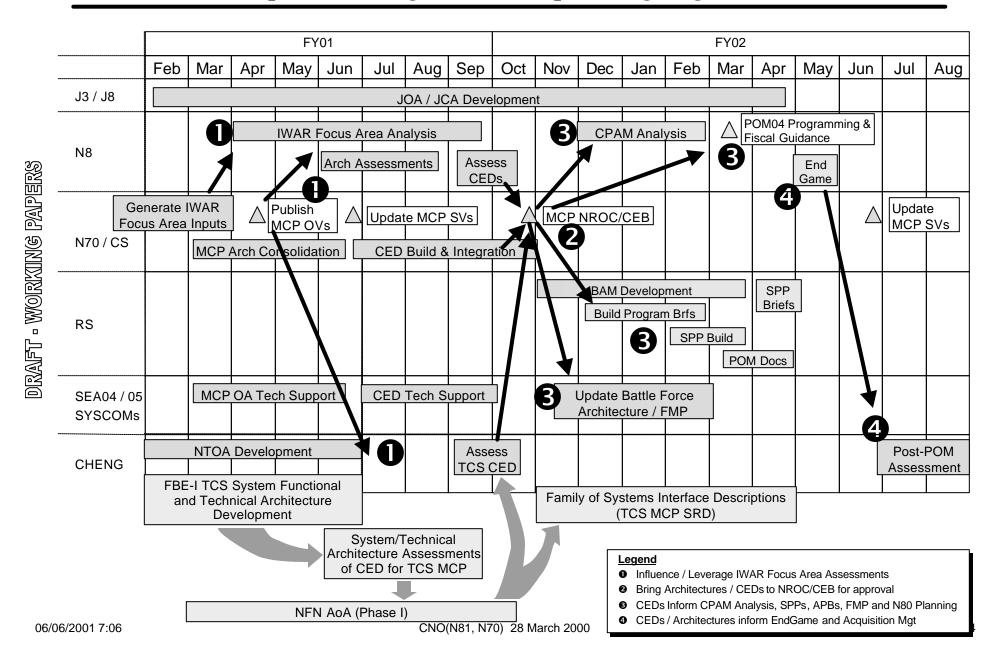
Architecture/CED Influence Time Frame

(Assuming the current planning target is POM-04)



Timeline and Pressure Points

(TCS example, assuming the current planning target is POM-04)



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What Budget Are You Working On Today?

The Lure of the ''Quick Kill''

All these processes are happening concurrently

Execution: FY01

In Congress: POM-02

Service Programming: PR-03



Service Planning & Assessment: POM-04

What interoperability <u>planners</u> should be trying to effect / affect today

Changes or directives applied "above" POM-04

(in the absence of some overarching plan or context)
risk breaking or invalidating

- Previous coordination or integration
- Previously set priorities
- Program or resource synchronization or alignment

Questions?